Industry Supreme High Resolution Platforms
ISEDE | ISFEG | ISIGG

Weighing Platforms

- Monolithic weighing system
- Resolutions of up to 640,000 d
- Built-in isoTEST function for optional automatic calibration at the touch of a button
- High overload protection
- Built-in RS-485 interface with high-speed data outputs – up to 50 Hz
- IP65 | IP67 protection

Combining rugged resilience, high overload protection and an extensive range of platforms – the IS range of high resolution platforms from Sartorius is the ideal companion for any industry. As standard the IS is equipped with an isoTEST function so, at the touch of the button the system calibrates and adjusts itself automatically. By using its inbuilt calibration weight, you save time and remove the inconvenience of manually calibrating your weighing systems.

A broad range of options to connect your scale to a wide variety of systems is vital. To enable this, the IS range is equipped with connectivity options for all Sartorius displays and operator terminals, PC's, PLC's and to the internationally renowned COMBICS. High resolution, electronic force compensation technology guarantees that time and time again the IS range will provide you with accurate, precise and reproducible results, no matter what you're weighing.

IS weighing platforms are verifiable as class 2, making them the ideal choice for legal metrology uses. Additionally, we support you by qualifying according to your requirements. We provide certificates and documentation according to GMP, ISO, ATEX, OIML and FDA regulations.

Two new, stainless steel platforms are now available as part of the extensive IS range. The ISBBS and the ISDCS are the perfect platforms for use in industries where high levels of hygiene and strong resistance to aggressive substances are required. For any weighing requirements up to 300kg, the IS range can promise to offer you a scale which is not only cost-effective but also, through the wide range of options available, is ideally suited to your process.

Resilience, longevity and ruggedness are all qualities that any weighing equipment should have. The IS fulfills all of these. Massive overload protection, guards against any damage to the internal weighing components, ensure that the IS is heavily protected. High IP ratings can be selected to provide the ability for intensive levels of cleaning in industries where it is a necessity.

As part of Sartorius' Ethos to provide weighing technology that can be used anywhere, the IS range is available in EX variations. All these platforms are certified for use in zones 20, 1, 21, 2, and 22, making the IS the benchmark for precise and secure weighing - suitable for all areas of installation.

General Specifications

Material
Industrial strength epoxide resin coating, or galvanized steel
Stainless steel load plate

Humidity
85% relative (non-condensing)
up to 31°C; 50% relative 40°C

Use at an altitude above sea level
Up to 2,000 m; indoors

Weighing system
Monolithic weighing system, with integrated motorized calibration weight

Resolution (non-verifiable)
Depending on model up to 640,000 d

Resolution (verifiable)
Depending on model up to 1 × 34,000 e

Transient emissions
In compliance with EN 61326-1, Class B (IEC 61326-1)

Electrical safety
In compliance with EN 61010-1 (IEC 61010-1)

Ambient temperature
- 10°C to +40°C

Ambient temperature (for use in legal metrology only)
+10°C to +30°C

Interference resistance
In compliance with EN 61326-1, Industrial areas (IEC 61326-1)

Tare equalization range (subtractive)
Up to 100% of the maximum scale range

IP Protection Rating
ISEDE: IP65 | IP44
ISFEG | ISIGG: IP67

Net weight | Gross weight
ISEDE: 16 | 21 kg
ISFEG: 30 | 36 kg
ISIGG: 70 | 85 kg

Packaging dimensions
ISEDE: 730 × 610 × 360 mm
ISFEG: 840 × 740 × 370 mm
ISIGG: 920 × 720 × 450 mm

Data interface
RS-485, cable with 12-pin round connector (male)
ISEDE: 3 m cable
ISFEG | ISIGG: 6 m cable

optional
RS-232
RS-422

Power supply
optional via AC adapter
100 – 240 V AC (–15% | +10%), 50 – 60 Hz, Max. 17 W | 23 VA

Ex approval
Zone 2+22

IS16EDE-H, IS34EDE-H and IS64EDE-S when modified
IS...IGG models in connection with CAIS Indicators

Comprehensive range of accessories
Pit installation
Roller conveyor
Benches

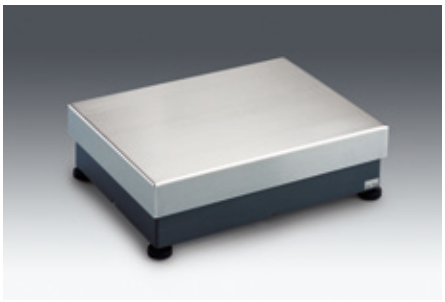
Order code

Series	Sensor technology	Maximum load	Dimensions	Base frame material	–	Display resolution
I	S	16	ED	E	–	S
		34	FE	G		H
		64	IG			S0CE
		150				H0CE
		300				

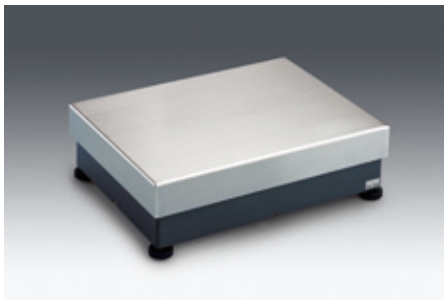
Example
IS34EDE-H0CE

Resolutions	
-S Single range,	≥ 60,000 d
-H Single range,	≥ 100,000 d
-S0CE Single range,	≥ 60,000 d, Class II, e = 10 d
-H0CE Single range,	≥ 100,000 d, Class II, e = 10 d

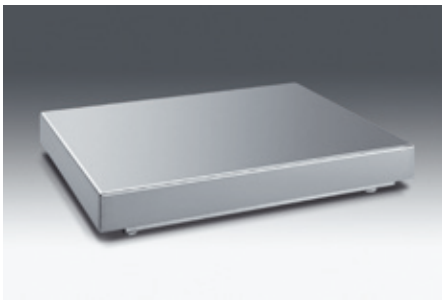
Base frame material
E = Industrial strength epoxide resin
G = Galvanized steel



Weighing capacity code		**16**	**16**	**34**	**34**
Dimension code		**EDE**	**EDE**	**EDE**	**EDE**
Resolution code		**-H**	**-H0CE**	**-H**	**-H0CE**
Weighing capacity max.	kg	16	16	34	34
Readability	g	0.1	0.1	0.1	0.1
Accuracy class		–	II	–	II
Verification scale interval e	g	–	1	–	1
Min. load	g		5		5
Electrical compensated preload (without limitation of the weighing capacity)	kg	4	4	4	4
Max. preload	kg	16	16	18	18
Repeatability	≤ ± g	0.05	0.05	0.1	0.1
Linearity	≤ ± g	0.2	0.2	0.2	0.2
Max. weight bearing capacity	kg	130	130	130	130
Platform dimensions (W × D × H)	mm	400 × 300 × 120	400 × 300 × 120	400 × 300 × 120	400 × 300 × 120
Net weight, approximate	kg	16	16	16	16
Ambient temperature (for use in legal metrology only)	°C	+10 ... +30	+10 ... +30	+10 ... +30	+10 ... +30
Ambient temperature range	°C	0 ... +40	0 ... +40	0 ... +40	0 ... +40
IP protection		IP65	IP65	IP65	IP65



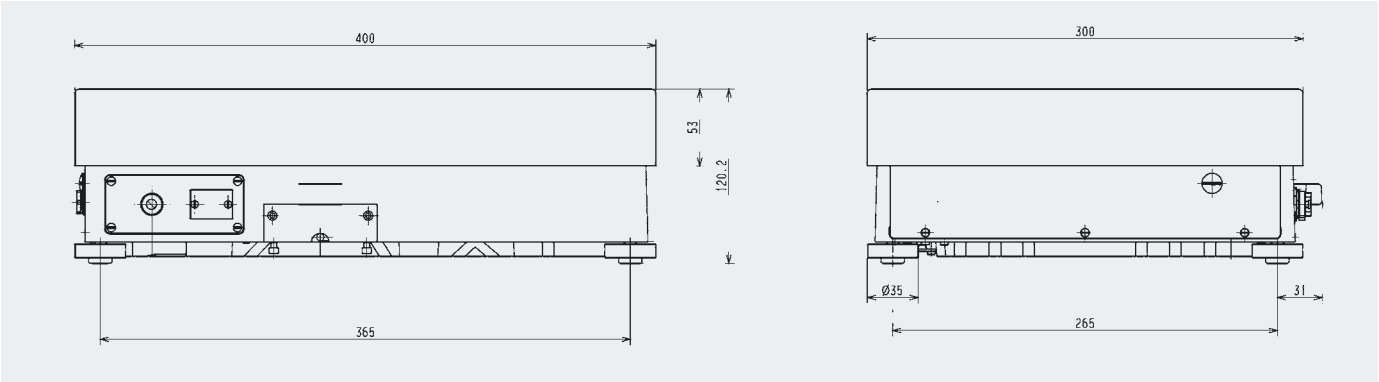
Weighing capacity code		**64**	**64**	**64**
Dimension code		**EDE**	**EDE**	**EDE**
Resolution code		**-S**	**-SOCE**	**-H**
Weighing capacity max.	kg	64	64	64
Readability	g	1	1	0.1
Accuracy class		–	II	–
Verification scale interval e	g	–	10	–
Min. load	g		50	
Electrical compensated preload (without limitation of the weighing capacity)	kg	13	13	13
Max. preload	kg	30	30	30
Repeatability	≤ ± g	0.3	0.3	0.1
Linearity	≤ ± g	0.5	0.5	0.3
Max. weight bearing capacity	kg	130	130	130
Platform dimensions (W × D × H)	mm	400 × 300 × 120	400 × 300 × 120	400 × 300 × 120
Net weight, approximate	kg	16	16	16
Ambient temperature (for use in legal metrology only)	°C	+10 ... +30	+10 ... +30	+10 ... +30
Ambient temperature range	°C	0 ... +40	0 ... +40	0 ... +40
IP protection		IP65	IP65	IP44



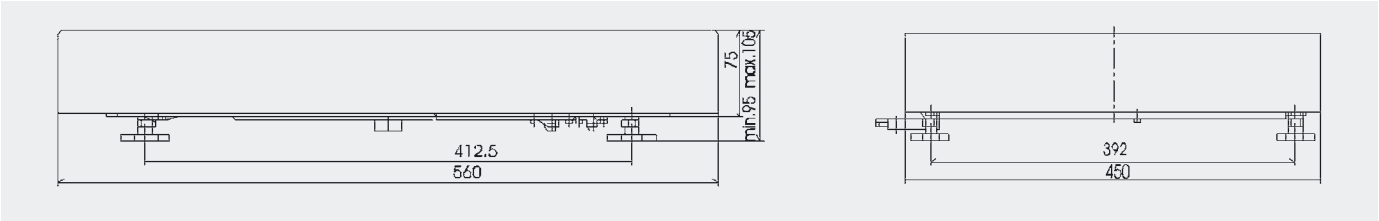
Weighing capacity code		**64**	**150**	**150**	**300**	**300**
Dimension code		**FEG**	**IGG**	**IGG**	**IGG**	**IGG**
Resolution code		**-S0CE**	**-H**	**-H0CE**	**-H**	**-H0CE**
Weighing capacity max.	kg	64	150	150	300	300
Readability	g	1	1	1	2	20
Accuracy class		II	–	II	–	II
Verification scale interval e	g	10	–	10	–	20
Min. load	g	50		50		1000
Electrical compensated preload (without limitation of the weighing capacity)	kg	4	4	4	13	13
Max. preload	kg	16	18	18	30	30
Repeatability	≤ ± g	0.5	1	1	2	2
Linearity	≤ ± g	2	4	4	8	8
Max. weight bearing capacity	kg	130	600	600	600	600
Platform dimensions (W × D × H)	mm	560 × 450 × 95	800 × 600 × 117		800 × 600 × 117	
Net weight, approximate	kg	30	70	70	70	70
Ambient temperature (for use in legal metrology only)	°C	0 ... +40	0 ... +40	0 ... +40	0 ... +40	0 ... +40
Ambient temperature range	°C	0 ... +40	0 ... +40	0 ... +40	0 ... +40	0 ... +40
IP protection		IP67	IP67	IP67	IP67	IP67

Dimensions

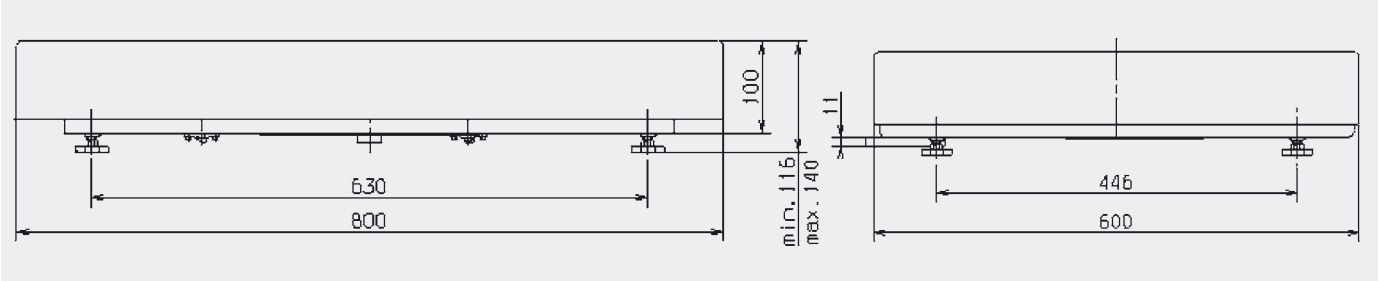
Model ED



Model FE



Model IG



Accessories

Description	Order number
Interfaces	
Data interface with 3-m cable (IP67 | RS-485) and round connector; electrically isolated	YDO59IS
Data interface with 3-m cable (IP67 | RS232 | RS422) and round connector; for -FEG or -IGG models	YDO52IS
Data interface with 3-m cable (IP67 | RS-232) and round connector	YDO58IS
Data output port, RS-232 D-Sub 9-pin female, (PC connection), length: 6 m	YDO56IS
Data output port, RS-232 D-Sub 25-pin female connector (PC connection) length: 6 m	YDO57IS
Cables	
Extension cable, 12-pin round male connector | 12-pin round female connector, 6 m	YCC01-01ISM6
Connecting cable, from round connector to PC, 25-pin D- Sub, (YDO52IS | YDO54IS | YDO58IS required), 0.2 m	YCC01-0017D2
PC adapter cable, from 25-pin D-Submini male connector to a 9-contact D-Submini female connector, length: 0.25 m (YDO52 | 54 | 58IS and YCC01- 0017D2 required)	6965619
Round male connector for customizing own cables, 12-pin; IP65	69QC0010
Round female connector for customizing own cables, 12-pin ; IP65	69QC0011
Mechanical Accessories	
Painted roller conveyor for platform dimensions 400 × 300 mm	YRC01EDA
Painted roller conveyor for platform dimensions 800 × 600 mm	YRC01IGP
Painted roller conveyor for platform dimensions 560 × 450 mm, 7 rolls in stainless steel	YRT01F-0001
Stainless steel roller conveyor for platform dimensions 400 × 300 mm	YRC01EDS
Stainless steel roller conveyor for platform dimensions 800 × 600 mm	YRC01IGS
Painted drive-on ramp for -IGG models, incl. installation kit	YAR10IS
Painted pit installation for platform dimensions 800 × 600 mm	YEG04IP
Stainless steel pit installation for platform dimensions 800 × 600 mm	YEG01IP
Installation kit for pit installation YEG04IP | YEG01IP	YAS04IS
Column painted for attaching the indicator to the platform 400 × 300 mm, height 500 mm	YDH02CHE
Hanger for under-scale weighing, M6 for EDE models	69EA0040
Painted bench for platform dimensions 400 × 300 mm, adjustment range 645 – 685 mm	YWT01CWP
Stainless steel bench for platform dimensions 400 × 300 mm, adjustment range 645 – 685 mm	YWT01CWS
Painted bench for platform dimensions 800 × 600 mm, adjustment range 642 – 702 mm	YWT04CWP
Stainless steel bench for platform dimensions 800 × 600 mm, adjustment range 642 – 702 mm	YWT04CWS
Stainless steel bench support arm for attaching the indicator, adjustable height	YDH01WTCWS
Wheel set (2 wheels with steering and braking function) for bench	YRO01WTCW
Power Supply	
External rechargeable battery pack, approx. 29 hours of operation	YRB06Z
AC adapter, 2.5 m primary cable, 1.4 m secondary cable - EU 230V	6971899
AC adapter for, 2 m primary cable, 1.4 m secondary cable - USA 120V	6971500
Converter kit (with cable gland) for installing the AC adapter (installation necessary, e.g. by Sartorius)	YAS03IS

YAS03IS for accu pack YRB06Z and power supplies required!

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